



SANYO

SANYO STEREO TURNTABLE TP1200/TP1200UM SERVICE MANUAL



SPECIFICATIONS

Motor	DC Brushless motor
Drive system	Direct drive
Speeds	33-1/3 & 45 rpm
Speed control range	Individual controls: $\pm 3\%$
Speed change	Electronic type
Wow & Flutter	Less than 0.04% WRMS
Signal to noise ratio	Better than 60 dB
Turntable platter	12-1/8" (306mm) dia. 3 lbs. 3 ozs. (1.5Kg)
Tone arm	Static-balance type, S-shaped
Tracking error	$\pm 1^\circ$
Tracking force range	0 — 3g
Cartridge	Magnetic stereo cartridge
Stylus	0.5 mil diamond stylus
Stylus pressure	1.2 — 2.0g
Frequency response	20 — 25,000 Hz
Channel separation	Better than 25 dB
Power source	120/200/220/240V 50/60Hz (TP1200) 110/125/220V 50/60Hz (TP1200UM) 240V 50/60Hz (TP1200 Aus)
Power consumption	6W
Dimensions	18-7/8"(W) x 6-1/4"(H) x 16-9/16"(D) (479 x 158 x 410mm)
Weight	20 lbs. 3 ozs. (10.0 Kg)

ADJUSTMENT

1. Set each adjustable resistor (VR-1 and VR-2 for r.p.m. control) to a mid-value position.
2. Turn the respective semifixed resistor (i.e. SVR-1 for 33-1/3r.p.m. and SVR-2 for 45 r.p.m.), observing the strobo disc placed on the turntable.

PARTS LIST (TP1200)

Key No.	Part No.	Description	Q'ty
PACKING			
	141-6-113T-56202	Individual carton (exc. Aus)	1
	141-6-113T-56205	Individual carton (in Aus)	1
	141-6-144T-29700	Styrol filler, Set & Dust cover	2
	141-6-144T-27500	Styrol filler	1
	141-6-316T-67400	Pad, Dust cover bottom	1
	141-6-316T-67500	Pad, Top side	1
		Pad 300 x 300mm, Turn table under	2
		Pad 458 x 355mm, Turn table top	2
	141-6-316T-67800	Pad, Top side	1
	141-2-143T-66300	Marking plate, 33/45 indicate	1
		Polyethylene bag 100 x 200mm, Power cord Output cord	2
		Polyethylene bag 100 x 100mm, Oil case	1
	141-6-316T-62500	Pad, Dust cover mtg.	2
	141-6-411T-75200	Instruction booklet	1
		Inner polyethylene bag 600 x 700mm, Set	2
		Inner polyethylene bag 350 x 400mm, Sheet & Turn table	1
		Inner polyethylene bag 550 x 700mm, inside dust cover	1
		Inner polyethylene bag 550 x 600mm, Outside dust cover	1
		Polyethylene bag 250 x 350mm. Instruction booklet, etc.	1
		Inner polyethylene bag 100 x 100mm. Cartridge	1
	141-6-455T-01101	Serial number Plate	2
ACCESSORY			
	141-0-197T-001911	Oil pack assembly	1
	4-235R-11801	Socket, England 2 pin type (exc. Aus)	1
	4-235R-11802	Socket, Siemens 2 pin type (exc. Aus)	1
CABINET			
	141-0-121T-131910	Deck panel assembly (exc. Aus)	1
	141-0-121T-131911	Deck panel assembly (in Aus)	1
	141-0-194T-003912	Dust cover assembly	1
	141-2-361T-11100	Bracket, Speed select switch mtg.	1
	141-2-421T-13800	Special screw, Speed select switch mtg.	3
	141-2-445T-05000	Rubber cushion, Speed select switch mtg.	3
	141-2-289T-01600	Adhesive film, Dust cover mtg.	4
	141-2-445T-16000	Rubber cushion, EXIT the output cord	1
	141-2-461T-20700	Pipe. PT mtg.	2
	123-2-445R-01600	Rubber cushion, PT mtg.	2
	141-2-411T-04700	Plate nut, PT mtg.	2
	141-2-352T-12600	Spacer, LED support	3
	141-2-363T-03400	Bracket, CR combination Fiber washer 3 x 8 x 1mm, LED support	1
	141-2-126T-17700	Back lid	1
	141-2-118T-00200	Turn table	1
	141-2-246T-08500	Sheet	1
	141-2-161T-26500	Push button, Power switch	1
	141-2-161T-26600	Push button, Speed select	2
	141-0-174T-00200	Stand assembly	4
	141-2-251T-05900	Hinge, Dust cover mtg.	2
	141-2-251T-06001	Hinge, Deck Panel mtg.	2
	141-2-352T-14300	Spacer, 45 adaptor	1
	141-2-135T-40400	Cover, 33/45 select	1
	141-2-241T-15800	Veil, Speed select switch	1
	141-2-241T-15900	Veil, Power switch	1
	141-2-365T-31700	Bracket, Power supply switch	1
	141-2-246T-08600	Sheet, Dust cover protect Rubber sheet 17 x 10 x 1mm, Neon lamp mtg.	1
	141-2-445T-18200	Rubber cushion, Stand	1
	141-2-135T-42100	Cover, Head shell	1
		Fiber sheet 3.2 x 10 x 3.2mm	3

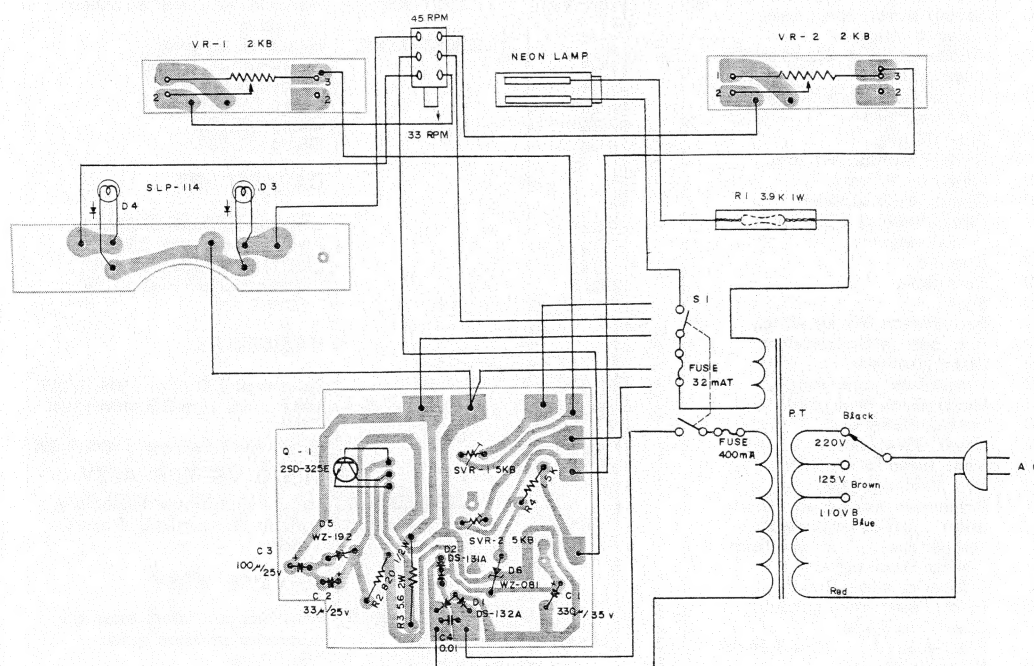
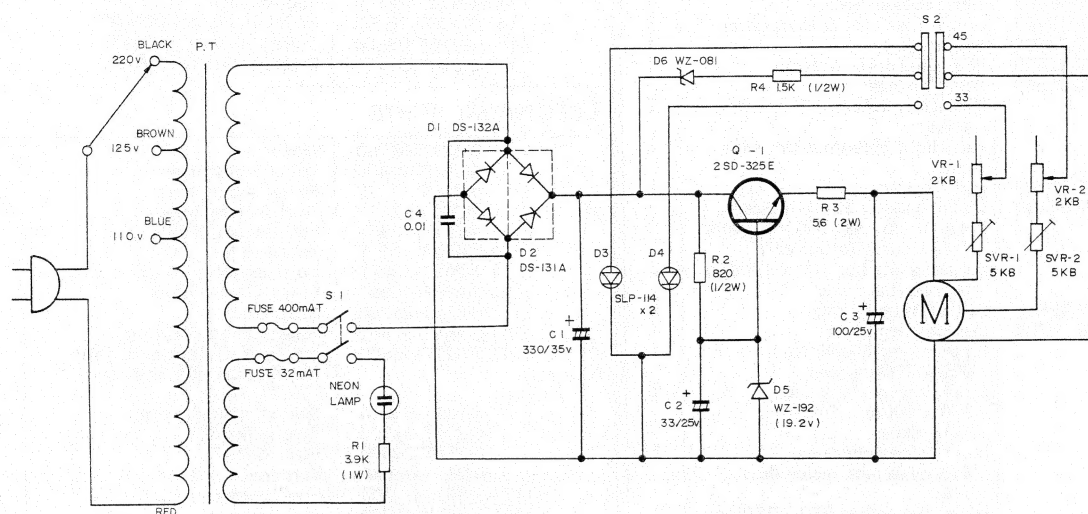
PARTS LIST (TP1200)

Key No.	Part No.	Description	Q'ty
CABINET			
	141-2-441T-04800	Felt cushion, PT	1
	141-2-322T-28200	Shield plate, Under arm	1
	141-2-367T-28400	Bracket, Power supply cord socket (exc. Aus)	1
	141-2-367T-28300	Bracket, Power supply cord socket (in Aus)	1
	141-2-464T-11800	Fixer, Power supply cord socket (exc. Aus)	1
	141-2-464T-14400	Fixer, Power supply cord socket (in Aus)	1
	141-2-371T-06801	Bracket, PT mtg.	1
	141-6-479T-16301	Label, Stylus mirror	1
	141-6-476T-05700	Indication label 400mA (Aus only)	1
	141-6-476T-05800	Indication label 32mA (Aus only)	1
	141-0-864T-001910	Bracket assembly, Mirror	1
ELECTRICAL PARTS			
S1	4 527T-08700	Motor	1
	4-251T-47700	Power transformer (exc. Aus)	1
	4-251T-49900	Power transformer (in Aus)	1
	4-243R-00100	Power supply cord (exc. Aus)	1
	4-243T-76600	Power supply cord (in Aus)	1
	4 231T-51900	Push switch, Power	1
	4-227T-01000	CR combination	1
	4-231T-42300	Push switch, 33/45 select	1
	123-2-472R-11200	Terminal lug	1
	4-243T-13200	Cord assembly, Output cord	1
R1	123-2-464R-10901	Fixer, Output cord	1
	4-612T-04700	Neon lamp	1
	141-2-382T-02000	Terminal clip	1
	141-2-163T-30500	Rotary knob, VR mtg.	2
	141-2-327T-06900	Insulator, Output cord fixer	1
		Metal oxide film 4.7K ohm $\pm 10\%$ 1W (exc. Aus)	1
		Metal oxide film 3.9K ohm $\pm 10\%$ 1W (in Aus)	1
	4-231T-37603	Switch, Voltage select, (exc. Aus only)	1
	141-0-743T-01000	Arm assembly	1
	141-0-872T-00191	Lifter assembly	1
	141-0-873T-00191	Rest assembly	1
	141-0-687T-00991	Weight assembly, Main weight	1
	141-0-687T-01091	Weight assembly, Sub weight	1
	141-0-687T-01191	Weight assembly, Lateral balance weight	1
	141-0-243T-08191	Base assembly, Lifter base	1
	141-2-286T-00200	Head shell	1
	4-156T-00191	Cartridge assembly w/stylus	1
	141-2-743T-03500	Arm	1
	4-157T-00500	Stylus	1
	4-234T-01700	Fuse 400mA (Aus only)	1
SVR1,2	4-234T-04600	Fuse 32mA (Aus only)	1
	141-2-383T-01300	Fuse holder (Aus only)	2
		POWER PCB ASSY	
	4-226T-600912	Printed circuit board assembly, POWER	1
	4-222T-30700	Variable resistor 5KB, Speed variable	2
	147-2-368T-02300	Heat sink, Q1 mtg.	1
		Transistor 2SD325 E	1
		Diode DS-132 A	1
		Diode DS-131 A	1
		Diode WZ-192	1
Q1		Diode WZ-081	1
D1			
D2			
D5			
D6			
CAPACITORS			
C2		Electrolytic 33 μ F 25WV	1
C3		Electrolytic 100 μ F 25WV	1
C1		Electrolytic 330 μ F 35WV	1
C4		Ceramic 0.01 μ F +80 -20% 50WV	1
RESISTORS			
R2		Solid type 820 ohm $\pm 10\%$ 1/2W	1

Key No.	Part No.	Description	Q'ty
ELECTRICAL PARTS			
R3		Metal oxide film 5.6 ohm $\pm 10\%$ 2W	1
R4		Solid type 1.5K ohm $\pm 10\%$ 1/2W	1
SLIDE VR PCB ASSY			
VR1,2	4-226T-808910	Printed circuit board assembly, Variable resistor 2KB, Rotary slide	2
	4-222T-45600		2
LED PCB ASSY			
D3,4	4-226T-809910	Printed circuit board assembly, Luminous emission diode SLP-114	1
			2
SCREW MOUNTING			
		Pan head screw 2.6 x 6mm	2
		Pan head screw 3 x 6mm	5
		Pan head screw 3 x 8mm	2
		Pan head screw 3 x 14mm	1
		Pan head screw 4 x 6mm	3
		Pan head screw 4 x 14mm	2
		Flat head screw 4 x 10mm	4
		Tapping screw 3 x 6mm	2
		Tapping screw 3 x 8mm	10
		Tapping screw 3 x 10mm	2
		Tapping screw 3 x 12mm	3
		Tapping screw 3 x 14mm	13
		Tapping screw 4 x 8mm	6
		Nut 3mm	1
		Washer 3mm	4
		Washer 4mm	3
		Washer 3 x 10 x 0.5mm	1
		Washer 4 x 16 x 1mm	3
		Spring washer 3mm	3
		Spring washer 4mm	3
		Fiber washer 3.3 x 8 x 0.5mm	3

PARTS LIST (TP1200UM)

Key No.	Part No.	Description	Q'ty	Key No.	Part No.	Description	Q'ty	
PACKING				CABINET				
	141-6-113T-56203	Individual carton	1		141-6-472T-14100	Caution label	1	
	141-6-144T-29700	Styrol filler, Set & Dust cover	2		141-6-476T-05700	Indication label 400MAT	1	
	141-6-144T-27500	Styrol filler	1		141-6-476T-05800	Indication label 32MAT	1	
	141-6-316T-67400	Pad, Dust cover bottom	1		141-0-864T-001910	Bracket assembly, Mirror	1	
	141-6-316T-67500	Pad, Top side	1	ELECTRICAL PARTS				
		Pad 300 x 300mm, Turn table under	2	S1	4-527T-08700	Motor	1	
		Pad 458 x 355mm, Turn table top	2		4-251T-48400	Power transformer	1	
	141-6-316T-67800	Pad, Top side	1		4-243T-77172	Power supply cord	1	
	141-2-143T-66300	Marking plate, 33/45 indicate	1		4-231T-43171	Push switch, Power	1	
		Polyethylene bag 100 x 200mm, Power cord Output cord	2		4-231T-42300	Push switch, 33/45 select	1	
		Polyethylene bag 100 x 100mm, Oil case Cartridge	2		123-2-472R-11200	Terminal lug	1	
		Pad, Dust cover mtg.	2		4-243T-13200	Cord assembly, Output cord	1	
	141-6-316T-62500	Instruction booklet	1		123-2-464R-10901	Fixer, Output cord	1	
	141-6-411T-75200	Inner polyethylene bag 600 x 700mm, Set	1		4-612T-04700	Neon lamp	1	
		Inner polyethylene bag 350 x 400mm, Sheet & Turn table	2		141-2-163T-30500	Rotary knob, VR mtg.	2	
		Inner polyethylene bag 550 x 700mm, inside dust cover	1	141-2-327T-06900	Insulator, Output cord fixer	1		
		Polyethylene bag 250 x 350mm, Instruction booklet, etc.	1	R1		Metal oxide film 3.9K ohm $\pm 10\%$ 1W	1	
	141-6-455T-01101	Serial number plate	2		4-231T-53600	Switch, Voltage select	1	
	141-6-415T-12400	Notice, Swedish	1		4-234T-01700	Fuse 400MAT	1	
	141-6-415T-06700	Notice, Power switch	1		4-234T-04600	Fuse 32MAT	1	
ACCESSORIES						4-237T-06900	Terminal	1
	141-0-197T-001911	Oil pack assembly	1		141-2-383T-01300	Fuse, holder	2	
CABINET						141-0-743T-01000	Arm assembly	1
	141-0-121T-131912	Deck panel assembly	1			141-0-872T-00191	Lifter assembly	1
	141-0-194T-003912	Dust cover assembly	1			141-0-873T-00191	Rest assembly	1
	141-2-361T-11100	Bracket, Speed select switch mtg.	1			141-0-687T-00991	Weight assembly, Main weight	1
	141-2-421T-13800	Special screw, Speed select switch mtg.	3		141-0-687T-01091	Weight assembly, Sub weight	1	
	141-2-445T-05000	Rubber cushion, Speed select switch mtg.	3		141-0-687T-01191	Weight assembly, Lateral balance weight	1	
	141-2-445T-16000	Rubber cushion, EXIT the output cord	1		141-0-243T-08191	Base assembly, Lifter base	1	
	141-2-461T-20700B	Pipe, PT mtg.	2		141-2-286T-00200	Head shell	1	
	123-2-445R-01600	Rubber cushion, PT mtg.	2		4-156T-00191	Cartridge assembly w/stylus	1	
	141-2-411T-04700	Plate nut, PT mtg.	2		4-157T-00500	Stylus	1	
	141-2-352T-12600	Spacer, LED support	2		POWER PCB ASSY			
		Fiber washer 3 x 8 x 1mm, LED support	3	SVR1,2	4-226T-600912	Printed circuit board assembly,	1	
	141-2-126T-17700	Back lid	1		4-222T-30700	Variable resistor 5KB, Speed variable	2	
	141-2-118T-00200	Turn table	1		147-2-368T-02300	Heat sink, Q1 mtg.	1	
	141-2-246T-08700	Sheet	1		Q1 D1 D2 D5 D6		Transistor 2SD325 E	1
	141-2-161T-26501	Push button, Power switch	1				Diode DS-132 A	1
	141-2-161T-26600	Push button, Speed select	2				Diode DS-131 A	1
	141-0-174T-00200	Stand assembly	4				Diode WZ-192	1
	141-2-251T-05900	Hinge, Dust cover mtg.	2				Diode WZ-081	1
	141-2-251T-06001	Hinge, Deck panel mtg.	2				CAPACITORS	
	141-2-352T-14300	Spacer, 45 adaptor	1		C2	Electrolytic 33 μ F 25WV	1	
	141-2-135T-40400	Cover, 33/45 select	1	C3	Electrolytic 100 μ F 25WV	1		
	141-2-241T-15800	Veil, Speed select switch	1	C1	Electrolytic 330 μ F 35WV	1		
	141-2-241T-15900	Veil, Power switch	1	C4	Ceramic 0.01 μ F +80 -20%, 50WV	1		
	141-2-365T-31701	Bracket, Power supply switch	1	R2 R3 R4	RESISTORS			
	141-2-246T-08600	Sheet, Dust cover protect	1			Solid type 820 ohm $\pm 10\%$ 1/2W	1	
		Rubber sheet 17 x 10 x 1mm, Neon lamp mtg.	1			Metal oxide film 5.6 ohm $\pm 10\%$ 2W	1	
	141-2-445T-18200	Rubber cushion, Stand	1			Solid type 1.5K ohm $\pm 10\%$ 1/2W	1	
	141-2-464T-20500	Fixer, Power cord output	1	VR1,2	SLIDE VR PCB ASSY			
	141-2-135T-42100	Cover, Head shell	1		4-226T-808910	Printed circuit board assembly,	2	
		Fiber sheet 3.2 x 10 x 3.2mm	3		4-222T-45600	Variable resistor 2KB, Rotary slide	2	
	141-2-441T-04800	Felt cushion, PT	1			LED PCB ASSY		
	141-2-322T-28200	Shield plate, Under arm	1	D3,4	4-226T-809910	Printed circuit board assembly,	1	
	141-2-352T-19300	Spacer, Under the terminal board	2			Luminous emission diode SLP-114	2	
	141-2-367T-28800	Bracket, Power supply cord socket	1					
	141-2-135T-42400	Cover, Fuse holder	1					
	141-2-371T-06801	Bracket, PT mtg.	1					
	141-6-479T-16301	Label, Stylus mirror	1					



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